

Computer Science Fundamentals

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The Division of Extension University of Toronto

This course is designed to present the fundamental concepts of Computer Science to persons who have some experience in programming practice. In this new science there are a number of emerging theories that will be discussed in considerable detail during the lecture sessions. Exposure in depth to these theories should be of great value to those engaged in computer work.

The course will be concerned with man-machine communication and the motivation for programming languages.

A list of further topics includes:

- Language classification by complexity

- Language classification by function

- Assemblers

- Interpreters

- Compilers

- Symbol manipulating

- Algebraic compilers

- List processing

- ALGOL

- Data structures: lists, stacks, arrays, dynamic storage, garbage collection, formal approaches.

- Compiler structure: formal languages, parsing methods, syntax directed compilers, translator writing systems.

Prerequisites: Three years experience with computers and some university level mathematics, or approval of the instructor is required.

Mondays, commencing
October 7, 7:30-9:30 p.m.,
Galbraith Building,
St. George Campus.

\$90.00 — 25 sessions

**Requests for application forms
may be directed to:**

**Business & Professional Courses,
Division of Extension,
University of Toronto,
84 Queen's Park,
Toronto 5, Ontario.
Telephone: 928-2400**



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